

**ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT**

- High-performance LEDs deliver consistent high-quality white light and uniform illumination without pixilation
- No harmful ultraviolet or infrared wavelengths
- No lead or mercury

**PRODUCT SPECIFICATIONS**
**Optics**

**Directional optics (center panel):** High transmission polycarbonate diffuser panel delivers main beam focus while providing excellent control and efficiency

**Diffuser Surround (side panels):** Two (2) sloping high transmission polycarbonate diffuser panels provide contrast and generate soft, even high angle luminance

**Electrical**

**LED Light Engine:** High-performance LEDs deliver consistent high-quality white light and uniform illumination without pixilation • Consistent fixture-to-fixture color temperature within 3 MacAdam ellipses • Light engine/reflector system produces over 3200 lumens while using only 44 watts of energy • 3000K, 3500K, 4100K and 5000K color temperatures • CRI>80 • Easily accessible and replaceable array boards allow for easy maintenance or updating technology

**LED Driver:** Accommodates 120V or 277V input volts AC at 50/60Hz • Consult factory for 347V • Power factor >0.9 • Dimmable to 10% with 0-10V DC control protocol • For list of compatible dimmers see [LED-DIM](#)

**Life:** Rated for 50,000 hours at 70% lumen maintenance, 8-12 years commercial use expectancy

**Construction**

**Housing:** 23 gauge C.R.S. • Highly reflective white powder coat bonded to phosphate-free, multi-staged pretreated metal

**Door frame:** Heavy gauge C.R.S. • Fully-enclosed cam latch allows for years of hassle-free maintenance • T-slot steel hinge ensures positive retention when door is open

**Mounting**

For lay-in applications, sits on drop ceiling T-bars. Drywall frame available for plaster/drywall ceilings, see accessories.

**Labels and Listings**

- Tested and certified to UL and CSA standards using ETL laboratories
- I.B.E.W. Union made

**Warranty:** 5 years when used in accordance with manufacturing guidelines.

Product specifications subject to change without notice.

**ORDERING INFORMATION:** Accessories ordered separately

Example: **S2X2LI-32351-WH2**

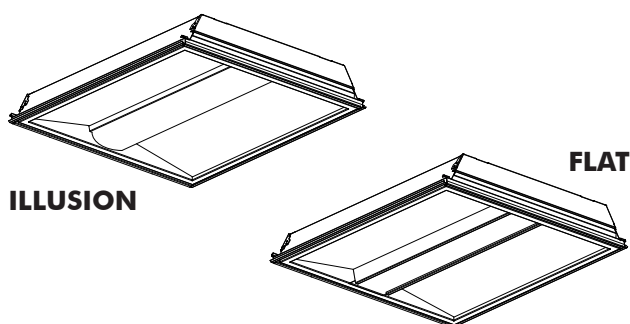
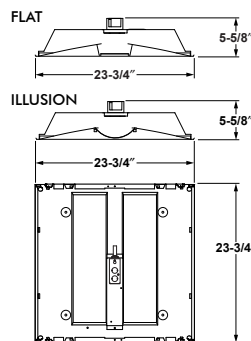
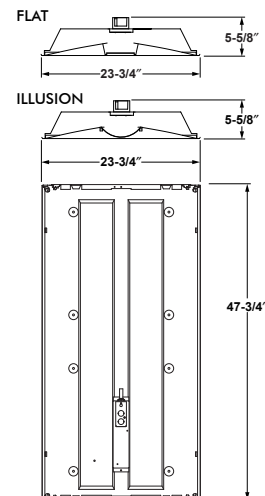
Cat. #	Size	Diffuser Style	Lumens	Color Temp.	Voltage	Finish	Generation	Options	Accessories
<b>S</b>						<b>WH</b>	<b>2</b>		
<b>S</b> Solid State, LED	<b>2X2</b> 2' x 2'	<b>LF</b> Flat Lay-In	<b>32</b> 3200 Lumens	<b>30</b> 3000K <b>35</b> 3500K	<b>1</b> 120V <b>2</b> 277V	<b>WH</b> White	<b>2</b> Gen2	<b>NY</b> 20 GA. Housing <b>BR</b> Emergency Battery Pack w/ Remote Test Switch	<b>2X2DWA</b> 2' X 2' Drywall Frame Adapter <b>2X4DWA</b> 2' X 4' Drywall Frame Adapter
	<b>2X4</b> 2' x 4'	<b>LI</b> Illusion Lay-In		<b>40</b> 4100K <b>50</b> 5000K	<b>3</b> 347V				

## 2X2, 2X4 LED RECESSED LUMINAIRE with LAY-IN DIFFUSER

### S2X2L, S2X4L SERIES

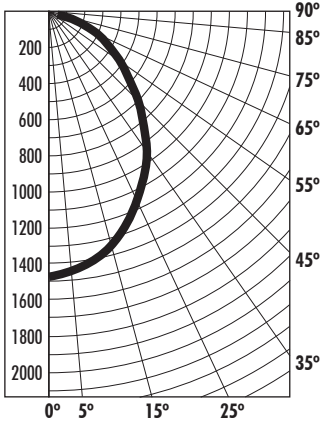


Type	Cat. No.
_____	_____
Project: _____	
Notes: _____	


**DIMENSIONS**
**2'x2'**

**2'x4'**


**PHOTOMETRIC REPORT**

Catalog Number: S2X2LF-32351-WH2  
 Test Number: PT03122702  
 Total Lumen Output: 3121 Lumens  
 Luminaire Efficacy: 74 lm/w  
 Luminaire Spacing Criteria: 1.16  
 Luminaire: 2' X 2' Flat Lay-In. White Frosted Diffuser.  
 CIE-Type: Direct



**Luminance Data (Candela/M)**

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	3331	2876	2574
55°	2944	2459	2204
65°	2541	2133	1918
75°	2114	1696	1515
85°	1377	1074	974

**Zonal Lumen Summary**

Zone	Lumens	%fixture
0-30°	1055	33.8
0-40°	1637	52.5
0-60°	2614	83.8
0-90°	3121	100.0
90-180°	0	0.0
0-180°	3121	100.0

**Candlepower Distribution (Candelas)**

Angle	Candela	Lumens
0°	1486	
5°	1468	139
15°	1359	381
25°	1170	535
35°	942	583
45°	708	540
55°	496	438
65°	314	306
75°	153	161
85°	30	40

**AVERAGE INITIAL FOOTCANDLES**

Reflectances: 80% Ceiling, 50% Walls, 30% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	131	92	64
6' x 6'	91	64	44
7' x 7'	67	47	32
8' x 8'	51	36	25
9' x 9'	40	29	20
10' x 10'	33	23	16
11' x 11'	27	19	13
12' x 12'	23	16	11

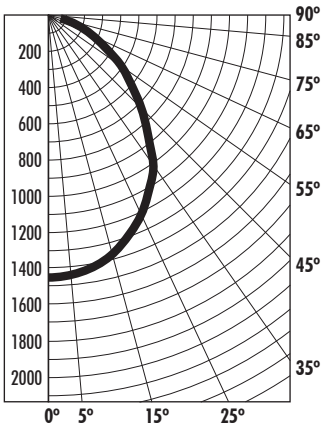
**COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)**

Effective Floor Reflectance 20%

PCC	80			70			50			30			10			0
	PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44
8	63	51	42	37	62	50	42	37	47	40	37	47	41	36	46	40
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34

**PHOTOMETRIC REPORT**

Catalog Number: S2X2LI-32351-WH2  
 Test Number: PT03122703  
 Total Lumen Output: 3257 Lumens  
 Luminaire Efficacy: 77 lm/w  
 Luminaire Spacing Criteria: 1.12  
 Luminaire: 2' X 2' Illusion Lay-In. White Frosted Diffuser.  
 CIE-Type: Direct



**Luminance Data (Candela/M)**

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	2996	3236	3216
55°	2469	2684	2541
65°	1932	2167	1973
75°	1187	1764	1617
85°	806	1544	1074

**Zonal Lumen Summary**

Zone	Lumens	%fixture
0-30°	1097	33.7
0-40°	1733	53.2
0-60°	2772	85.1
0-90°	3257	100.0
90-180°	0	0.0
0-180°	3257	100.0

**Candlepower Distribution (Candelas)**

Angle	Candela	Lumens
0°	1475	
5°	1477	140
15°	1384	390
25°	1217	567
35°	1014	636
45°	755	587
55°	500	453
65°	290	292
75°	135	151
85°	32	42

**AVERAGE INITIAL FOOTCANDLES**

Reflectances: 80% Ceiling, 50% Walls, 30% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	136	95	65
6' x 6'	94	66	45
7' x 7'	69	48	33
8' x 8'	53	37	26
9' x 9'	42	29	20
10' x 10'	34	24	16
11' x 11'	28	20	13
12' x 12'	24	16	11

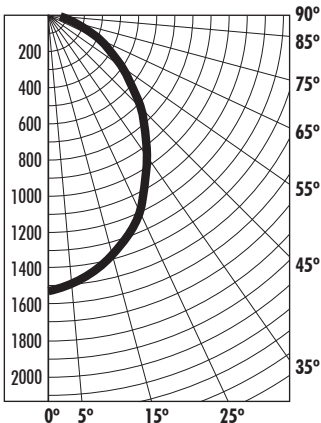
**COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)**

Effective Floor Reflectance 20%

PCC	80			70			50			30			10			0
	PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49
7	68	55	47	41	66	55	47	41	53	46	41	52	45	41	50	45
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34

**PHOTOMETRIC REPORT**

Catalog Number: S2X2LF-32401-WH2  
 Test Number: PT03122704  
 Total Lumen Output: 3202 Lumens  
 Luminaire Efficacy: 75 lm/w  
 Luminaire Spacing Criteria: 1.16  
 Luminaire: 2' X 2' Flat Lay-In. White Frosted Diffuser.  
 CIE-Type: Direct



**Luminance Data (Candela/M)**

Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	3418	2951	2649
55°	3020	2531	2260
65°	2617	2202	1973
75°	2160	1741	1560
85°	1444	1108	974

**Zonal Lumen Summary**

Zone	Lumens	%fixture
0-30°	1081	33.7
0-40°	1679	52.4
0-60°	2682	83.8
0-90°	3202	100.0
90-180°	0	0.0
0-180°	3202	100.0

**Candlepower Distribution (Candelas)**

Angle	Candela	Lumens
0°	1523	
5°	1505	142
15°	1393	390
25°	1199	548
35°	967	598
45°	727	554
55°	508	449
65°	322	314
75°	157	165
85°	31	41

**AVERAGE INITIAL FOOTCANDLES**

Reflectances: 80% Ceiling, 50% Walls, 30% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	134	95	65
6' x 6'	93	66	45
7' x 7'	69	48	33
8' x 8'	53	37	26
9' x 9'	42	29	20
10' x 10'	34	24	16
11' x 11'	28	20	13
12' x 12'	23	16	11

**COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)**

Effective Floor Reflectance 20%

PCC	80			70			50			30			10			0
	PW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61
5	79	67	59	52	77	65	57	52	63	56	51	61	55	50	60	54
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44
8	63	51	42	37	62	50	42	37	47	40	37	47	41	36	46	40
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

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**PHOTOMETRIC REPORT**

**Catalog Number:** S2X2LI-32401-WH2  
**Test Number:** PT03122705  
**Total Lumen Output:** 3341 Lumens  
**Luminaire Efficacy:** 78 lm/w  
**Luminaire Spacing Criteria:** 1.12  
**Luminaire:** 2' X 2' Illusion Lay-In, White Frosted Diffuser.  
**CIE-Type:** Direct

**Luminance Data (Candela/M)**

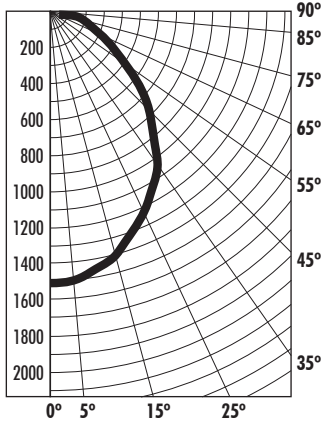
Angle in Degrees	Avg. 0°	Avg. 45°	Avg. 90°
45°	3079	3319	3282
55°	2536	2755	2607
65°	1973	2216	2015
75°	1221	1809	1662
85°	806	1578	1142

**Zonal Lumen Summary**

Zone	Lumens	%fixture
0-30°	1125	33.7
0-40°	1777	53.2
0-60°	2844	85.1
0-90°	3341	100.0
90-180°	0	0.0
0-180°	3341	100.0

**Candlepower Distribution (Candelas)**

Angle	Candela	Lumens
0°	1510	
5°	1514	143
15°	1420	400
25°	1261	581
35°	1039	652
45°	775	602
55°	515	465
65°	297	300
75°	139	155
85°	33	43



**AVERAGE INITIAL FOOTCANDLES**

Reflectances: 80% Ceiling, 50% Walls, 30% Floors

Luminaire Spacing	Room Cavity Ratio		
	RCR1	RCR4	RCR8
5' x 5'	142	99	68
6' x 6'	98	69	47
7' x 7'	72	50	35
8' x 8'	55	39	27
9' x 9'	44	31	21
10' x 10'	35	25	17
11' x 11'	29	20	14
12' x 12'	25	17	12

**COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)**

Effective Floor Reflectance 20%

PCC	80		70		50		30		10		0							
	70	50	30	10	70	50	30	10	50	30	10	0						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	90	81	74	68	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29



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